AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-8. (canceled)

9. (previously presented) A microdialysis probe, comprising:

a first tube extending from a proximal end of the probe to a distal end of the probe;

a membrane (115) mounted over an exterior surface of the first tube;

a distal end piece (110) comprising

a distal end portion of the first tube (116),

a distal end portion of the membrane (115) mounted over an exterior surface of the first tube,

a position indicating object (130) inserted into the distal end of the first tube, and

a space (118) defined by and located between an exterior of the first tube and an interior surface of the membrane;

a proximal tubular fitting (111) attached to the distal end piece (110),

a proximal end of the membrane being fastened to the proximal tubular fitting (111);

a proximal end piece (113) permanently fastened to the proximal tubular fitting;

two further tubes (107, 108) located in the proximal end piece and forming an inlet and an outlet from the probe to let a perfusion liquid pass through the probe;

an aperture (117) through a wall portion of the first tube and located adjacent the distal end of the first tube and providing a perfusion liquid communication passage between the space (118) and the interior of the first tube, wherein,

the position indicating object allows non-invasive location of the distal part of the probe when inserted in patient tissue.

10. (previously presented) The probe of claim 9, wherein the position indicating object is a plug comprising a glue that seals in the distal end of the first tube and the distal end part of the membrane.

11. (previously presented) The probe of claim 9, wherein the membrane is tubular and semi-permeable material.

12. (previously presented) The probe of claim 9, wherein the distal end piece is permanently fastened to the distal end of the first tube.

13. (previously presented) The probe of claim 9, wherein,

a length of the probe is 5 cm,

a length of the proximal tubular fitting is 2 cm,

a length of the membrane is 3 cm,

a diameter of the proximal tubular fitting is 1 mm, and

an outer diameter of the membrane is 0.6 mm, the dimension being approximate.

14. (previously presented) The probe of claim 9, wherein the position indicating object is a plug of gold.

15. (previously presented) The probe of claim 9, wherein the position indicating object is visible to X-rays.

16. (previously presented) The probe of claim 9, wherein the position indicating object permits the distal end of the probe to be visible, during examination, using Nuclear Magnetic Resonance.

17. (previously presented) The probe of claim 9, wherein the position indicating object is a hollow plug filled with air, the plug being identifiable using Nuclear Magnetic Resonance.

18. (currently amended) The probe of claim 9, wherein,

the distal end portion of the first tube (116) has a ~~corbelled~~ end with a widened interior diameter as compared to an interior diameter of a proximal end of the first tube, and

the position indicating object sealingly extends into the ~~corbelled~~ end.

19. (currently amended) [[A]] The microdialysis probe of claim 28, ~~comprising:~~

[[a]] the distal end piece (410) further comprising [[;]] a distal tubular fitting (412) ~~attached around the distal end piece, the distal tubular fitting and the distal end piece~~ forming a foremost tip of a distal end of the probe;

[[a]] the proximal end piece (413) forming [[a]] the proximal end of the probe;

[[a]] the proximal tubular fitting (411) attached to the proximal end piece at the proximal end;

[[a]] the membrane (415) fit, at a first end, to the proximal tubular fitting (411), and fastened, at a second end, to the distal end piece (410);

[[a]] the first tube (416) extending, through the proximal tubular fitting, from the proximal end piece (413) to the distal end piece (410), the first tube being closed at a distal end;

~~a space (418) defined by and located between an exterior of the first tube and an interior surface of the membrane;~~

a second tube (419) extending from the proximal end of the probe to the space;

~~two further tubes (407, 408) located in the proximal end piece and forming an inlet and an outlet from the probe to let a perfusion liquid pass through the probe;~~

[[an]] the aperture (417) is located through a wall portion of the first tube and is located adjacent the distal end of the first tube ~~and~~ providing a perfusion liquid communication passage between the space (418) and the interior of the first tube, wherein,

the distal end piece (410) is [[a]] the position indicating object allowing non-invasive location of the distal part of the probe when inserted in patient tissue.

20. (previously presented) The probe of claim 19, wherein distal end piece is a rounded shape of a material opaque to X-rays.

21. (previously presented) The probe of claim 19, wherein the position indicating object is a plug comprising a glue that seals in the distal end of the first tube and the distal end part of the membrane.

22. (previously presented) The probe of claim 19, wherein the membrane is tubular and semi-permeable material.

23. (previously presented) The probe of claim 19, wherein the distal end piece is permanently fastened to the distal end of the first tube.

24. (previously presented) The probe of claim 21, wherein the distal end piece comprises a plug of gold.

25. (previously presented) The probe of claim 19, wherein the position indicating object is visible to X-rays.

26. (previously presented) The probe of claim 19, wherein the position indicating object permits the distal end of the probe to be visible, during examination, using Nuclear Magnetic Resonance.

27. (previously presented) The probe of claim 19, wherein the position indicating object is a hollow plug filled with air, the plug being identifiable using Nuclear Magnetic Resonance.

28. (currently amended) A microdialysis probe, comprising:

the interior first tube extending from a proximal end of the probe to a distal end of the probe, the first tube being closed at the distal end of the probe;

a membrane;

a distal end piece comprising

a distal end portion of the first tube,

a position indicating object,

a first portion of the membrane coextensive with the first tube and extending beyond the distal end of the first tube~~, a part of the membrane being attached to the position indicating object~~, and

a space located between an exterior of the first tube and an interior surface of the membrane;

a proximal tubular fitting attached to the distal end piece,

a proximal end of the membrane being fastened to the proximal tubular fitting;

a proximal end piece fastened to the proximal tubular fitting;

two further tubes located in the proximal end piece and forming an inlet and an outlet from the probe to let a perfusion liquid pass through the probe;

an aperture located adjacent the distal end of the first tube and providing a perfusion liquid communication passage between the space and the interior of the first tube, wherein,

the position indicating object allows non-invasive location of the distal part of the probe when inserted in patient tissue.